Industrial 4G Router

YF360 V2

4G 3G Remote Management WIFI Din-Rail RS232 RS485 VPN

Introduction

YF360 V2 Industrial Router is an IoT wireless communication router. It is using public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long distance, wireless and large data transmission function for users. The product uses the high-performance industrial-grade 32-bit CPU and wireless module, with the embedded real-time operating system as the software support platform. It provides RS232/RS485, Ethernet port and WIFI that can be connected to the serial device, Ethernet devices and WIFI devices at the same time, achieve data pass-through function.

Industrial-grade Design

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Support low-consumption mode, scheduled power-on/power-off mode (Optional)
- Metal casing, IP30 protection level, suitable for most industrial control applications.
- Wide range power input (DC 5~36V)

Stability & Reliability

- SIM/UIM card slot with built-in 15KV ESD
- Ethernet interface with built-in 15KV ESD
- RS232/RS485 with built-in 15KV ESD
- Multiple protection mechanism to ensure system stability, always keeping online
- Auto recovery mechanism, including online detect and auto redial
- Support hardware and software WDT

Standard & Convenience

- Standard RS232 (or RS485/RS422), ethernet and WIFI interface, can be connected to the serial device, ethernet devices and WIFI devices
- Provide standard wired WAN port (support standard PPPOE protocol), Can be connected to ADSL devices directly
- Intelligent data terminal, automatically enter transmission status after power-on
- Powerful central management software for easy device management (optional)
- Easy to use and flexible, has multiple working modes
- Convenient system configuration and maintenance interface (including local and remote WEB or CLI access)
- DIN-Rail mounting, wall mounting or desktop

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High Performance

- Multiple WAN connection methods, include Static IP/DHCP/PPPOE/DHCP-4G
- Support APN/VPDN
- Support NTP, RTC embedded.
- Support multiple DDNS provider service
- Support multiple online trigger ways,including SMS, ring and data. Support link disconnection when timeout
- Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, etc.
- Support upgrade software from the local and remote maintenance
- Support various network protocols including TCP/IP, UDP, FTP (optional), HTTP, etc.
- Support SPI firewall, access control, URL filtering, etc.
- WIFI 802.11b/g/n. Support AP, client, Adhoc, Repeater, Repeater Bridge mode.
- Support VPN Client (PPTP/L2TP/OPENVPN/IPSEC/GRE)
- Support VPN Server (PPTP/L2TP/OPENVPN/IPSEC/GRE)
- Support DHCP server and client, firewall, NAT, DMZ host , URL block, QOS, traffic, statistics, real time link speed statistics etc.
- Schedule Reboot, Schedule Online and Offline, etc.
- Support GPS function (Optional)

Product Specification

Cellular Specification	
Items	**Contents**
Standard and Band	LTE FDD: B1/B3/B5/B7/B8/B20/B28 B1/B2/B3/B4/B5/B7/B8/B12/B17/B28/B66 (Optional), B2/B4/B5/B12/B13/B17/B66/B71 (Optional) LTE TDD: B38/B40/B41 HSPA+/HSUPA/HSDPA/WCDMA/UMTS 2100/1900/900/850MHz EV-DO: BC0 CDMA 1x: BC0 EDGE/GPRS/GSM 850/900/1800/1900MHz
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76 Mbps HSPA+: Downstream rate 21Mbps, uplink rate 5.76 Mbps UMTS: 384Kbps
Transmit Power	< 23dBm
Sensitivity	< -97dBm

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WIFI Specification	
Items	**Contents**
Standard and Band	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps IEEE802.11n: 150Mbps
Security	Support WEP, WPA, WPA2 encrypt methods, optional WPS function
Transmit Power	20dBm (11n), 24dBm (11g), 26dBm (11b)
Sensitivity	< -72dBm @ 54Mbps

Hardware System	
Items	**Contents**
CPU	Industrial-grade CPU
Flash	16MB(Extendable to 64MB)
DDR2	128MB

Interfaces	
Items	**Contents**
WAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
LAN Interface	4 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
Serial	1 x RS232/RS485 serial interface with built-in 15KV ESD Data bits:5, 6, 7, 8 bits Stop bits:1, 1.5 (optional), 2 bits Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional) Serial Port Rate: 2400~115200bits/s
LED Indicators	"Power", "System", "Online", "SIM", " LAN ", "WAN", "WIFI", "Signal Strength"
Antenna Interface	Cellular: 2 * Standard SMA female antenna interface, characteristic impedance: 50 Ω WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω
SIM/UIM Slot	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD
Power Interface	Standard 3-PIN power jack, reverse-voltage and over-voltage protection
Reset Button	Can reset router’s configuration to default factory setting by this button

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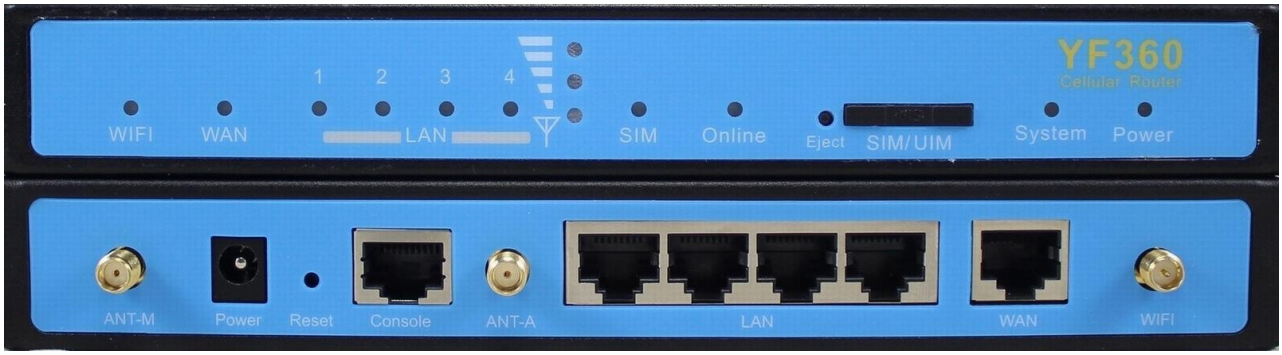

Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

Power	
Items	**Contents**
Input Voltage	DC 12V/1.5A
Accepted Range	DC 5~36V
Power Consumption	
Work Mode	**Consumption**
Standby	293～326mA@12VDC
Communicating	310～554mA@12VDC
Schedule Shutdown	2.57~4.2mA@12DVC
Physical Properties	
Items	**Contents**
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications.
Dimensions	206x135x28 mm (excluding antennas and mountings)
Weight	790g
Others	
Items	**Contents**
Operating Temperature	-35~+75℃
Storage Temperature	-40~+85℃
Relative Humidity	95% (non-condensing)

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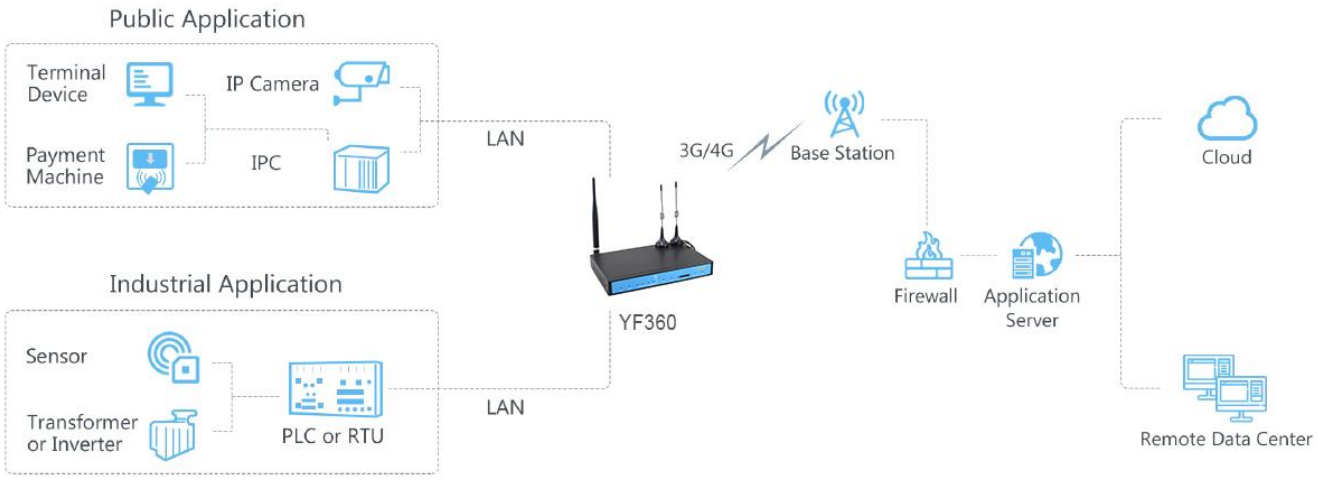
GPS(Optional)	
Items	**Contents**
GPS Module	Industrial GPS module (Optional Beidou module)
Receiver Type	50 channels GPSL1 (1575.42MHz) C/A code Support WAAS and EGNOS, MSAS, GAGAN
Maximum Update Rate	4Hz
Positioning Accuracy	Positioning：2.5m CPE SBAS：2.0m CPE
Sensitivity	Tracking: -160 dBm Re-capture: -160 dBm Cold start: -146 dBm

Topology



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Dimension

Order Information

Models	Description	WAN	LAN	Cellular Antennas	WIFI Antenna	SIM/UIM	GPS
YF360-L V2	Industrial LTE WIFI Router	1	4	2	1	1	Optional

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